This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (original) A positive-working radiation-sensitive composition comprising:
 - (a) a polymer capable of being dissolved in an alkaline aqueous solution; and
 - (b) a development-enhancing compound that increases the rate at which said composition dissolves in said solution after exposure to radiation, said compound comprising a hydrogen bond-substituting compound.
- 2. (original) A positive-working radiation-sensitive composition comprising:
 - (a) a polymer capable of being dissolved in an alkaline aqueous solution; and
 - (b) a development-enhancing compound that increases the rate at which said composition can dissolve in said solution after exposure to radiation, said compound containing a functional group that is at least one of an alcohol, a phenolic hydroxyl, a carboxyl, a carboxylate, a thiol, a thiophenol, a thioacid and its salts, an amine, an imine, an amine oxide, an amide, an imide, a phosphorous-containing ester or amide, a phosphorus-containing quaternary ammonium salt, a polysiloxane having free hydroxyl groups, an organic or inorganic lithium salt and a fluorine-containing radical.
- 3. (original) A composition according to claim 2, wherein said developmentenhancing compound is selected from the group consisting of:
 - (a) an alcohol having an alkyl radical of C_{12} to C_{60} , a fluoroalkyl radical of C_4 to C_{60} or a fluoroalkylaryl radical of C_7 to C_{60} ;
 - (b) a C_3 to C_{500} polyol;
 - (c) a dihydric phenol;
 - (d) a tri-hydric phenol;
 - (e) a lithium salt that is one of a carboxylate, thiocarboxylate, sulfate, sulfonate, phosphate, phosphite, nitrate and nitrite; and
 - (f) a phosphorous-containing ester, amide or quaternary ammonium salt having at least one free hydroxyl group.

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- 4. (original) A composition according to claim 3, wherein said dihydric alcohol is resorcinol.
- 5. (original) A composition according to claim 3, wherein said dihydric alcohol is one of 4-hexylresorcinol and n-dodecylresorcinol.
- 6. (original) A composition according to claim 3, wherein said dihydric alcohol is one of catechol and an alkyl catechol.

Claims 7-13 (canceled).

- 14. (original) A composition according to claim 2, further including a converter substance capable of converting radiation into heat.
- 15. (original) A composition according to claim 14, wherein the radiation is at least one of light and infrared light.
- 16. (original) A composition according to claim 15, wherein the converter substance is at least one of a pigment and an infrared dye.
- 17. (original) A composition according to claim 16, wherein the pigment is at least one of carbon black, a phthalocyanine compound and a metal oxide and the dye is at least one of a cyanine dye, a methine dye, a naphthaquinone dye, a squarylium dye and a pyrylium dye.
- 18. (original) A composition according to claim 2, wherein the polymer is at least one of:
 - (a) an acetal resin, and
 - (b) a polymer having at least one of a phenolic hydroxyl group, a sulfonamide group and an active imide group.

Claim 19 (canceled).

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- 20. (original) A composition according to claim 2, further comprising a compound that reduces the solubility of the polymer in the alkaline aqueous solution.
- 21. (original) A composition according to claim 20, wherein the compound that reduces the solubility of the polymer in the solution is at least one of an infrared dye and an image colorant.
- 22. (original) A composition according to claim 21, wherein the image colorant is one of Victoria Pure Blue BO and the tetrafluoroborate salt of Basic Blue 7.

Claims 23-26 (canceled).

- 27. (original) A positive-working lithographic printing precursor comprising:
 - (a) a hydrophilic lithographic base, and
 - (b) a radiation-sensitive coating on a surface of the base, the coating comprising:
 - (i) a polymer capable of being dissolved in an alkaline aqueous solution; and
 - (ii) a development-enhancing compound that increases the rate at which said coating dissolves in said solution after exposure to radiation, said compound containing a functional group that is at least one of an alcohol, a phenolic hydroxyl, a carboxyl, a carboxylate, a thiol, a thiophenol, a thioacid and its salts, an amine, an imine, an amine oxide, an amide, an imide, a phosphorous-containing ester or amide, a phosphorous-containing quaternary ammonium salt, a polysiloxane having free hydroxyl groups, an organic or inorganic lithium salt and a fluorine-containing radical,

wherein the radiation-sensitive coating becomes more soluble in said alkaline aqueous solution after exposure to radiation.

- 28. (original) A precursor according to claim 27, wherein said development-enhancing compound is selected from the group consisting of:
 - (a) an alcohol having an alkyl radical of C_{12} to C_{60} , a fluoroalkyl radical of C_4 to C_{60} or a fluoroalkylaryl radical of C_7 to C_{60} ;
 - (b) a C_3 to C_{500} polyol;

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- (c) a dihydric phenol;
- (d) a tri-hydric phenol;
- (e) a lithium salt that is one of a carboxylate, thiocarboxylate, sulfate, sulfonate, phosphate, phosphite, nitrate and nitrite; and
- (f) a phosphorous-containing ester, amide or quaternary ammonium salt having a free hydroxyl group.
- 29. (original) A precursor according to claim 27, wherein said dihydric alcohol is resorcinol.

Claims 30-38 (canceled).

- 39. (original) A precursor according to claim 27, further including a converter substance capable of converting radiation into heat.
- 40. (original) A precursor according to claim 39, wherein the radiation is at least one of light and infrared light.

Claims 41-42 (canceled).

- 43. (original) A precursor according to claim 27, wherein the polymer is at least one of:
 - (a) an acetal resin, and
 - (b) a polymer having at least one of a phenolic hydroxyl group, a sulfonamide group and an active imide group.

Claims 44-76 (canceled).